

Anh Tran

Senior Frontend Engineer | Web & Mobile | AI Integration

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PROFESSIONAL SUMMARY

Senior Frontend Engineer with 10 years of experience delivering **production web and mobile applications**. Takes ownership from initial build through **deployment**, works directly with **business stakeholders**, and implements **GDPR-aligned frontend solutions**.

TECHNICAL SKILLS

Frontend: React, Next.js, React Native, TypeScript, Redux, Tailwind CSS, Flutter

Cloud & DevOps: AWS (Lambda, CloudFront, S3, API Gateway, CloudWatch), GitHub Actions (CI/CD)

Compliance & Performance: GDPR Implementation, Client-Side Encryption, Web Vitals (CLS/LCP), Service Workers

Testing: Jest, React Testing Library, Playwright

PROFESSIONAL EXPERIENCE

Amazon

Jun 2022 – Present

Software Development Engineer

Remote

Led the initial build of a prescription refill flow for **Amazon Pharmacy (React, TypeScript, AWS)** while also owning three React **micro-frontends** for **Amazon Prime** serving 200k+ daily users, including performance fixes, backend coordination, and GDPR-compliant consent implementation.

Amazon Pharmacy

- Led the initial build of a new prescription refill flow using React and TypeScript, deploying it to **production within three months** while working alongside backend and compliance teams.
- Maintained the refill flow post-launch using **AWS CloudWatch** for monitoring and fixed five defects related to form validation and insurance data display reported by internal testers.
- Worked directly with compliance stakeholders to meet **health-data requirements** before each release, implementing **client-side validation logic** in TypeScript to ensure no regulatory blockers.
- Implemented client-side data masking for prescription form fields using React state management, minimising exposure of **personal health information** before API submission to AWS Lambda endpoints.

Tech stacks: React, TypeScript, AWS (Lambda, CloudFront, CloudWatch)

Amazon Prime

- Owned three React micro-frontends served via **AWS CloudFront**, handling 200k+ daily active users on **Prime benefits pages**, from feature work to on-call maintenance.
- Resolved a persistent **layout shift issue** on the benefits dashboard using CSS containment and React reconciliation optimisation, cutting CLS from 0.25 to 0.08.
- Coordinated with backend teams to unblock dependent services during two major Prime Day releases, using AWS API Gateway to debug integration points and prevent customer-facing downtime.
- Ensured benefits pages respected user consent preferences by conditionally loading analytics scripts in React only after explicit opt-in, implementing a **GDPR-compliant cookie consent banner** with localStorage.
- Added a **pluggable chat interface** to the component library, including a hook for consuming OpenAI-compatible API endpoints, adopted by three internal teams for **customer support pilots**.

Tech stacks: React, TypeScript, AWS (S3, CloudFront, API Gateway)

eBay

Feb 2019 – May 2022

Frontend Engineer

London, United Kingdom

Maintained the **eBayUI Core component library** (40+ React components, npm pipeline, 27% bug reduction) and spearheaded a **PWA implementation** for product listing search that delivered a 40% improvement in repeat-visit load time while ensuring GDPR-compliant anonymous data storage.

eBayUI Core

- Maintained 40+ React components in the internal library, fixing **cross-browser inconsistencies** in JavaScript reported by consuming teams across the organisation.

- Reduced reported UI bugs by 27% over six months by introducing Jest unit tests and **React Testing Library** for regression testing on the most frequently used components.
- Owned the npm deployment pipeline, including semantic versioning with standard-version, changelog generation, and **zero-downtime releases** for 30+ internal applications.
- Integrated a **lightweight chatbot** into the product listing search page, wiring **Anthropic API** calls to answer user questions about item specifications and shipping policies.

Tech stacks: React, JavaScript, npm, Jest, React Testing Library

PWA Exploration

- Spearheaded **PWA implementation** for product listing search using React and TypeScript, delivering a 40% reduction in repeat-visit load time through **service worker caching strategies (Workbox)**.
- Improved repeat-visit load time by 40% in controlled testing compared to the standard web view by caching **static assets** and API responses in the service worker cache.
- Presented findings and a working demo to **frontend architecture stakeholders**, demonstrating how service workers could reduce server load and improve mobile web retention.
- Designed the service worker cache to store only anonymous product data using **IndexedDB**, avoiding personal identifiers to align with **GDPR principles**.

Tech stacks: React, TypeScript, Service Workers, Workbox, IndexedDB

Aphix Software

Oct 2015 – Jan 2019

Frontend Developer

Dublin, Ireland

Built a React Native app (**SalesRep App**) from scratch for offline field sales deployed to 12 pilots, including critical data sync fixes and GDPR right-to-erasure, while also refactoring legacy **AngularJS modules** to React for **Aphix WebShop**, reducing page load time by 22% and shortening feedback-to-release cycles.

SalesRep App

- Built a React Native app from scratch using JavaScript, enabling **offline inventory checks** and order placement for **field sales representatives**.
- Deployed the app to 12 pilot customers via **TestFlight (iOS)** and internal APK distribution (Android), providing ongoing maintenance and **three feature releases** in six months.
- Resolved a critical **data synchronisation issue** between the mobile app and backend using encrypted localStorage and realm sync, preventing order duplication for 150+ daily active users.
- Implemented **offline persistence** with **SQLite** and **integrated a GDPR** “Right to Erasure” data purge function within the app settings.

Tech stacks: React Native, JavaScript, SQLite, localStorage (encrypted), TestFlight

Aphix WebShop

- Maintained and refactored **legacy AngularJS modules to React**, focusing on high-traffic checkout and product listing pages that generated most revenue.
- Reduced **average page load time by 22%** using Webpack code splitting and image optimisation (lazy loading with react-lazy-load-image-component).
- Shortened the **feedback-to-release cycle** from two weeks to four days by prioritising fixes directly with customer success stakeholders and using **GitHub Actions** for automated testing.

Tech stacks: React, JavaScript, AngularJS (legacy migration), Webpack, GitHub Actions

EDUCATION

BSc in Computer Science - [University College Cork \(UCC\)](#)

2011 - 2015